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-	386	345/848,849,850,775,852.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:43
-	19	345/848,849,850,775,852.ccls. and ((room home interior) near5 (decorat\$5 design\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 11:46
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-	131	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) same ((inter\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj2 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:43
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-	5	((browser internet website web) adj (base\$5 assist\$5 offer\$5)) adj5 ((interi\$5 room house home dwell\$5 kitchen bedroom living dining bathroom) adj5 (design\$5 decorat\$5 furnish\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:51
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-	2	6173278.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 13:56
-	2	6192150.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/16 16:28

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*Matsumoto, S.; Fujiya, M.;*

Advanced Intelligent Mechatronics '97., IEEE/ASME International Conference on , 16-20 June 1997

Pages:37

[\[Abstract\]](#)   [\[PDF Full-Text \(52 KB\)\]](#)   **IEEE CNF****2 V<sup>2</sup>ID: virtual visual interior design system***Zhibin Lei; Yufeng Liang; Weicong Wang;*

Acoustics, Speech, and Signal Processing, 1999. ICASSP '99. Proceedings., 1999 IEEE International Conference on , Volume: 6 , 15-19 March 1999

Pages:3053 - 3056 vol.6

[\[Abstract\]](#)   [\[PDF Full-Text \(424 KB\)\]](#)   **IEEE CNF****3 The heaven and earth virtual reality: Designing applications for nov users***Fairchild, K.M.; Lee, B.H.; Loo, J.; Ng, H.; Serra, L.;*

Virtual Reality Annual International Symposium, 1993., 1993 IEEE , 18-22 Sep 1993

Pages:47 - 53

[\[Abstract\]](#)   [\[PDF Full-Text \(568 KB\)\]](#)   **IEEE CNF****4 Generalized functional and decorative filleting and blending operati***Elber, G.;*

Shape Modeling International, 2003 , 12-15 May 2003

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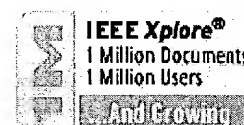
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1 **Field-weakening performance of interior permanent-magnet motors**

Soong, W.L.; Ertugrul, N.;

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[\[Abstract\]](#)   [\[PDF Full-Text \(366 KB\)\]](#)   IEEE JNL
2 **V<sup>2</sup>ID: virtual visual interior design system**

Zhibin Lei; Yufeng Liang; Weicong Wang;

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3 **Mechanical Design Considerations for Conventionally Laminated, High-Speed, Interior PM Synchronous Machine Rotors**

Lovelace, E.C.; Jahns, T.M.; Keim, T.A.; Lang, J.H.;

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4 **Representing spatial knowledge in design**

Fung, W.L.; Chun, H.W.;

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*Soong, W.L.; Staton, D.A.; Miller, T.J.E.;*  
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**6 Study on surface roughness and gloss of interior design materials**  
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**7 A modified interior point method for supervisory controller design**  
*Szymanski, P.T.; Lemmon, M.;*  
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**motor using a niching genetic algorithm**  
*Dong-Hyeok Cho; Hyun-Kyo Jung; Tae-Kyung Chung; Cheol-Gyun Lee;*  
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**9 Impact of saturation and inverter cost on interior PM synchronous  
machine drive optimization**  
*Lovelace, E.C.; Jahns, T.M.; Lang, J.H.;*  
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**10 Multiobjective optimal design of interior permanent magnet  
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*Dong-Hyeok Cho; Hyun-Kyo Jung; Dong-Joon Sim;*  
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*Dong-Joon Sim; Dong-Hyeok Cho; Jang-Sung Chun; Hyun-Kyo Jung; Tae-Kyo Chung;*

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**12 'Digitized sunshine' aids architects**

*Stix, G.;*

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**13 An investigation of a segmented rotor interior permanent magnet machine for field weakening**

*Rahman, F.; Dutta, R.;*

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**15 Multiobjective optimal design of interior permanent magnet synchronous motors considering improved core loss formula**

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**3 Study on surface roughness and gloss of interior design materials***Matsumoto, S.; Fujiya, M.;*Advanced Intelligent Mechatronics '97., IEEE/ASME International Conference on, 16-20 June 1997  
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**4 A mixed reality system with visual and tangible interaction capabilities application to evaluating automobile interior design***Ohshima, T.; Kuroki, T.; Yamamoto, H.; Tamura, H.;*

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**6 Assistant system for interior design using individual Kansei informa**

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*Heng Li; Love, P.E.D.;*  
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*Armando, A.; Pecchiari, P.;*  
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**10 Intelligent critic system for architectural design**

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## V<sup>2</sup>ID: virtual visual interior design system

 Zhibin Lei [Yufeng Liang](#) [Weicong Wang](#)

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### Abstract:

In this paper we propose a novel system of semantic feature extraction and **interior** design and **decoration** application. The system, V<sup>2</sup>ID (virtual visual design), uses colored texture and spatial edge layout to obtain simple information of global room environment. We address the domain specific segmentation problem application and the techniques for obtaining semantic features from a room environment. We also discuss heuristics for making use of these features (color, texture or shape) to retrieve objects from an existing database. The final resynthesized room environment with original scene and novel object from database is created for the purpose of animation and virtual room walkthrough.

### Index Terms:

[computer animation](#) [content-based retrieval](#) [edge detection](#) [feature extraction](#) [image analysis](#) [image segmentation](#) [image texture](#) [virtual reality](#) [visual databases](#) [V<sup>2</sup>ID](#) [color](#) [colored texture](#) [database](#) [decoration](#) [domain specific segmentation problem](#) [commerce](#) [global room environment](#) [interior design](#) [resynthesized room environment](#) [semantic feature extraction](#) [semantic features](#) [shape](#) [spatial edge layout](#) [texture](#) [virtual room walkthrough](#) [virtual visual interior design system](#)

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